

FIG. 5
(PRIOR ART)

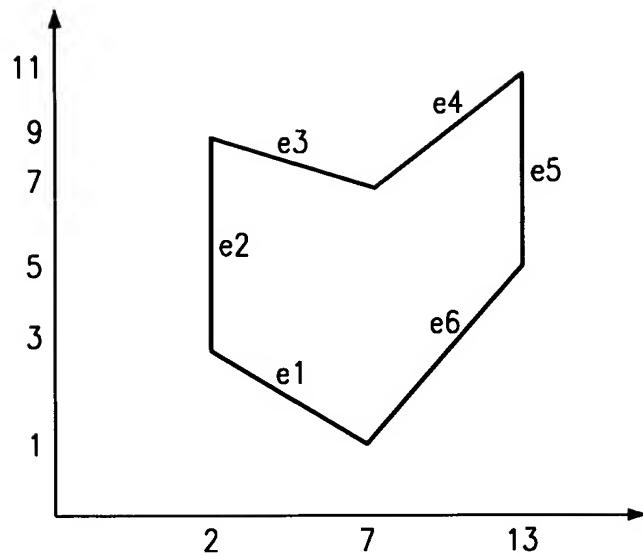


FIG. 8

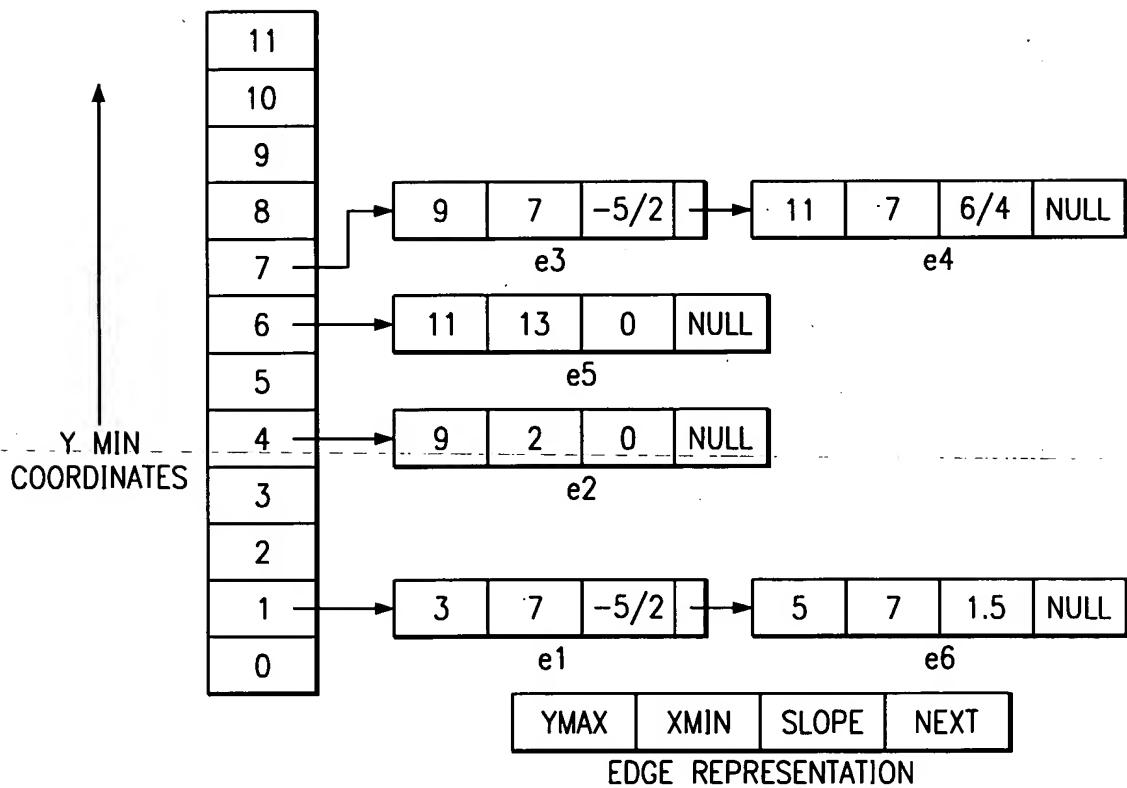


FIG. 9
(PRIOR ART)

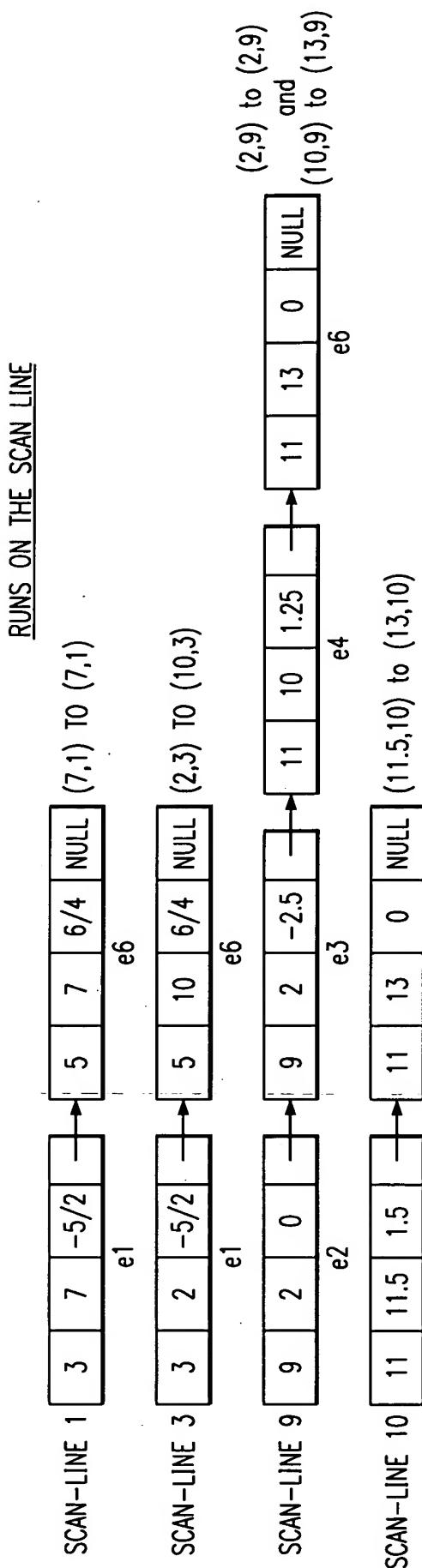


FIG. 10
(PRIOR ART)

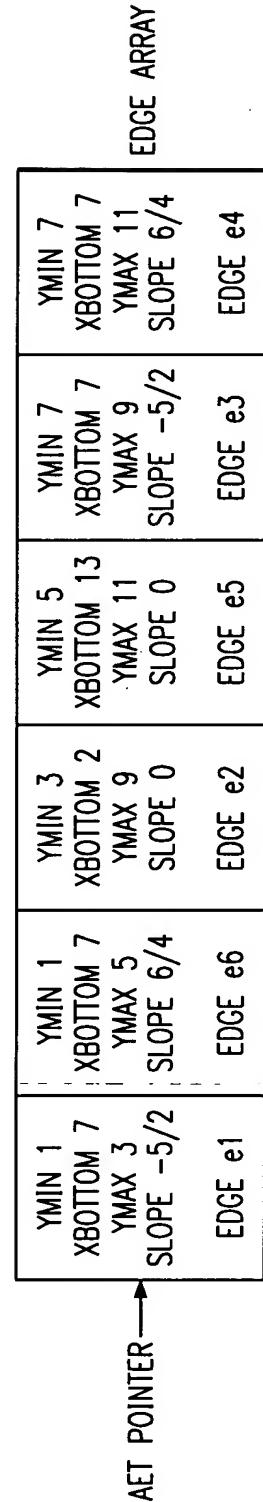


FIG. 11

FIG. 12a

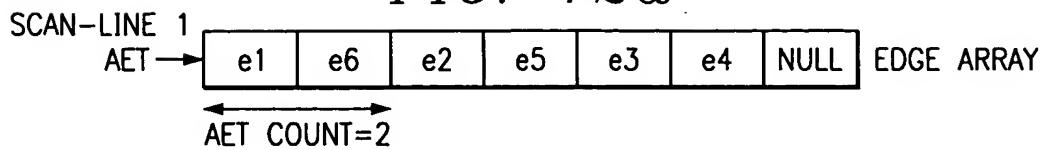


FIG. 12b

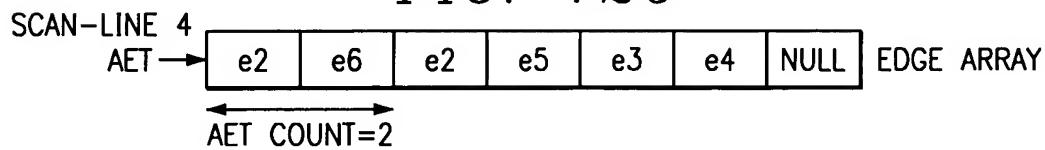


FIG. 12c

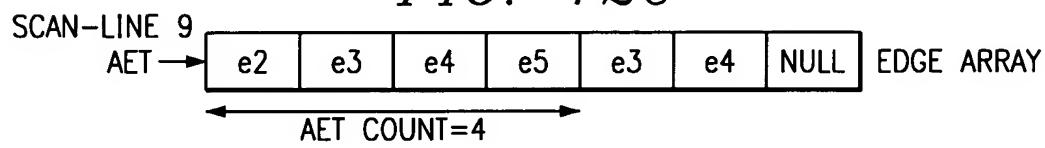


FIG. 13a
(PRIOR ART)

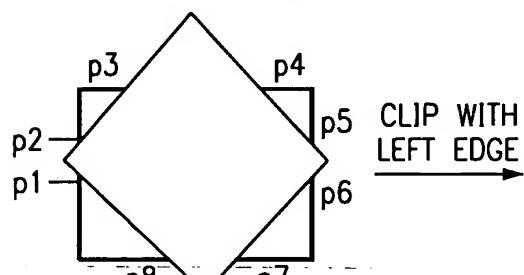


FIG. 13b
(PRIOR ART)

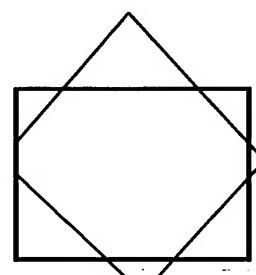
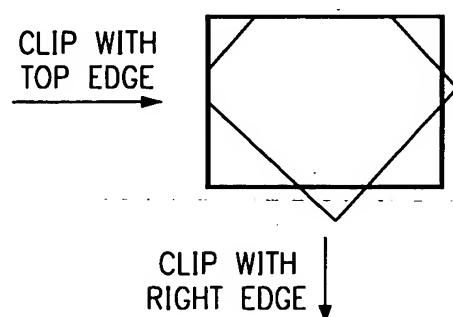
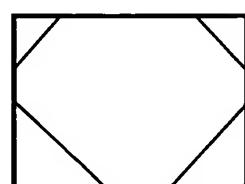


FIG. 13c
(PRIOR ART)



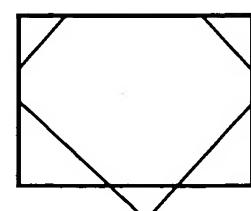
SQUARE=CLIP POLYGON
DIAMOND=SUBJECT POLYGON



CLIP WITH
BOTTOM EDGE

FIG. 13e
(PRIOR ART)

FIG. 13d
(PRIOR ART)



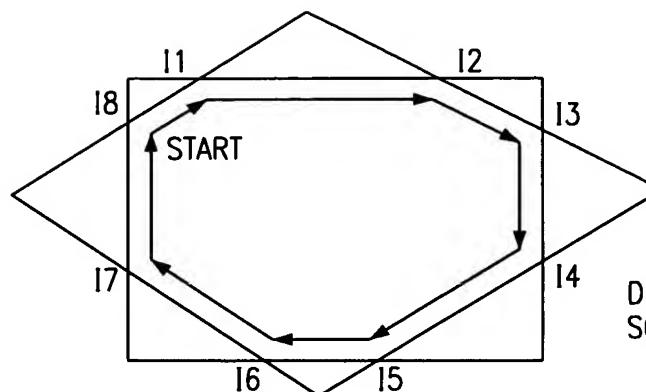


FIG. 14
(PRIOR ART)

DIAMOND=SUBJECT POLYGON
SQUARE=CLIP POLYGON

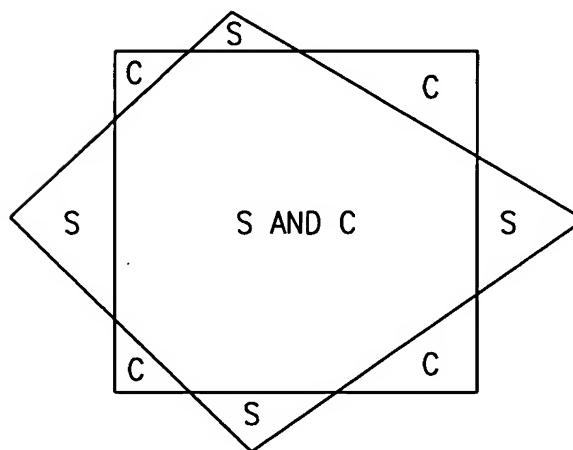


FIG. 15
(PRIOR ART)

S=SUBJECT POLYGON
C=CLIP POLYGON

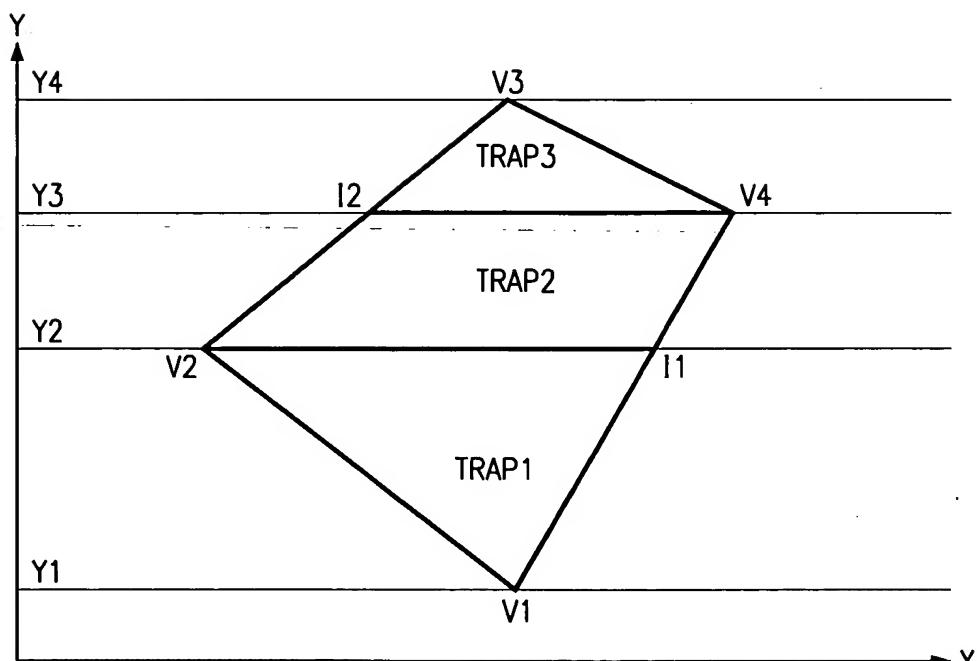


FIG. 16
(PRIOR ART)

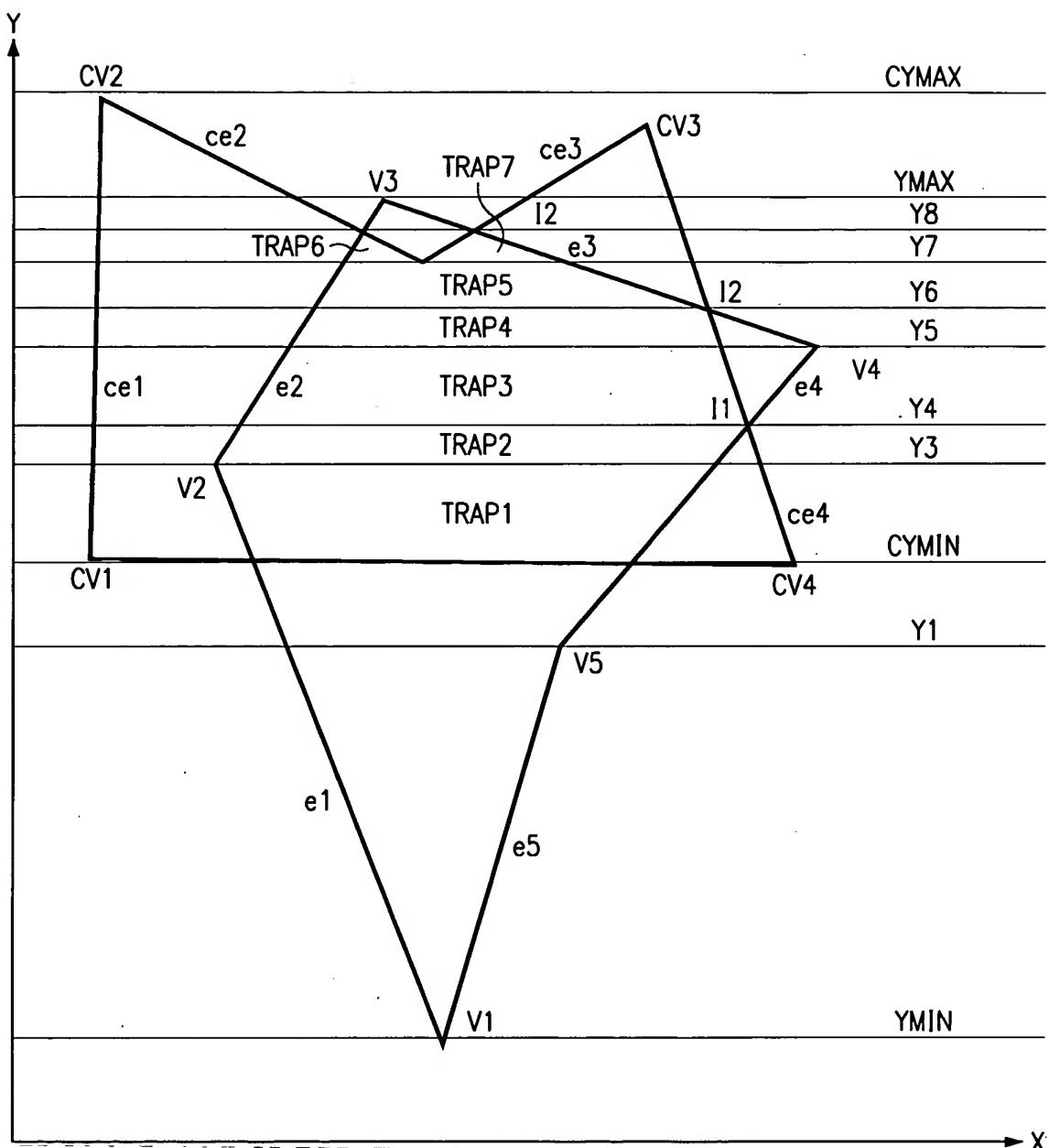


FIG. 17

CE1 x1	CE4 x2
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 AET OF CLIP POLYGON AT SCANLINE CYMIN

E1 x3	E4 x4
-------	-------

 AET OF SUBJECT POLYGON AT SCANLINE CYMIN

x_1, x_2, x_3, x_4 XBOTTOM VALUES OF RESPECTIVE EDGES.

FROM FIGURE 17, $x_1 < x_3$ AND $x_2 > x_4$

$x_{left} = \text{MAXIMUM } (x_1, x_3)$ i.e. EDGE E1

$x_{right} = \text{MINIMUM } (x_2, x_4)$ i.e. EDGE E4

FIG. 18

AETs AT SCANLINE Y7

ce1 xb1	ce2 xb2	ce3 xb3	ce4 xb4	
---------	---------	---------	---------	--

e2 xb5	e3 xb6	
--------	--------	--

xb1...xb6 ARE RESPECTIVE XBOTTOMS
OF THE EDGES IN THE AETs

FROM FIGURE 17, $xb1 < xb5$ AND $xb4 > xb6$

$x_{left} = \text{MAXIMUM } (xb1, xb5)$ i.e. EDGE ce1

$x_{right} = \text{MINIMUM } (xb2, xb6)$ i.e. EDGE ce2

SECOND TRAPEZOID IS POSSIBLE AS THE AETs DID NOT REACH THE END OF LIST

$x_{left} = \text{MINIMUM } (xb3, xb6)$ i.e. EDGE ce3

$x_{right} = \text{MINIMUM } (xb4, xb6)$ i.e. EDGE e3

FIG. 19

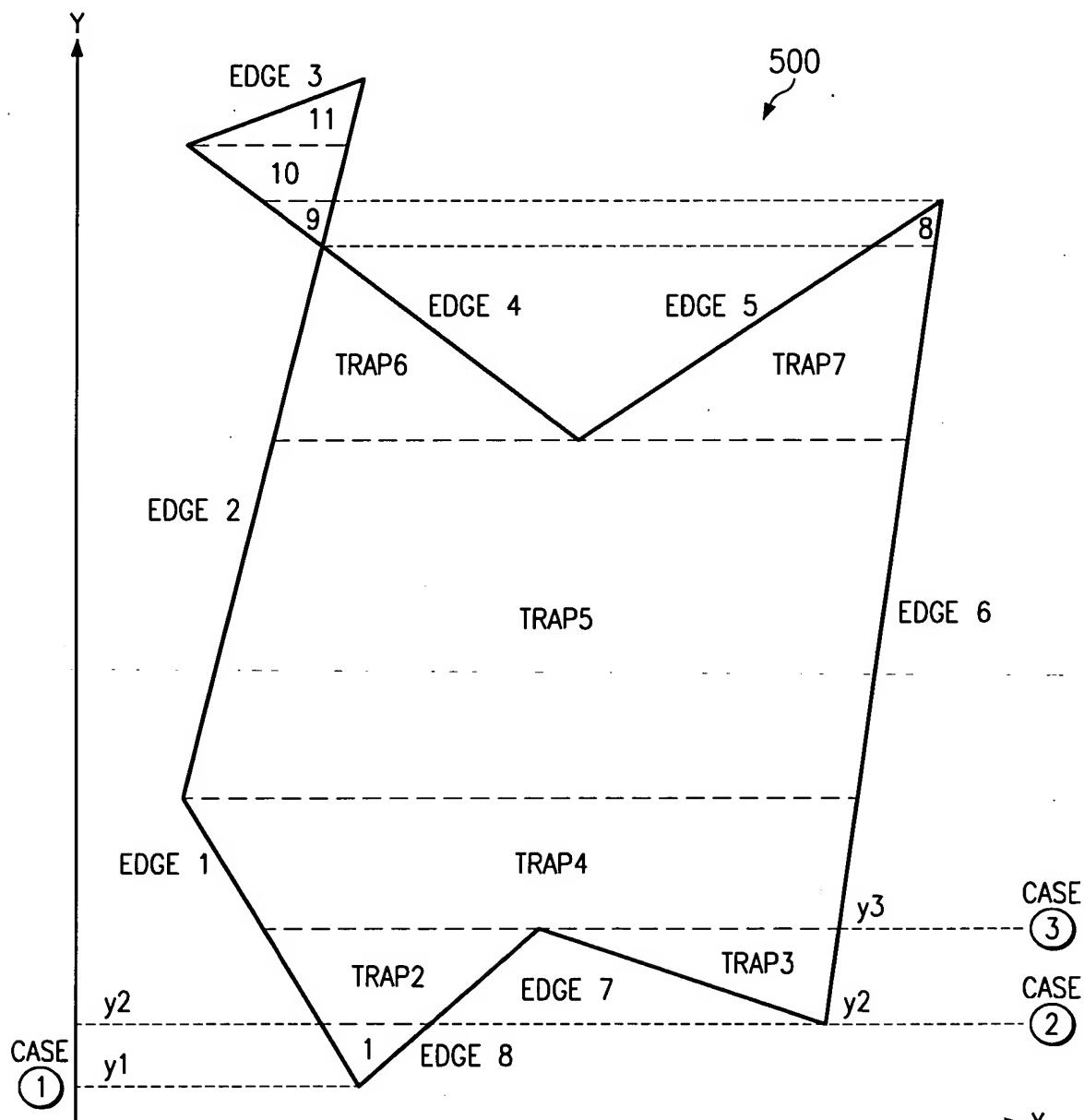


FIG. 20

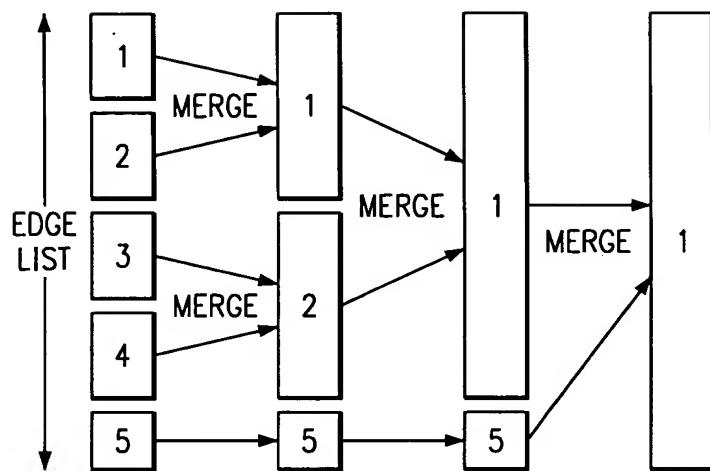


FIG. 21

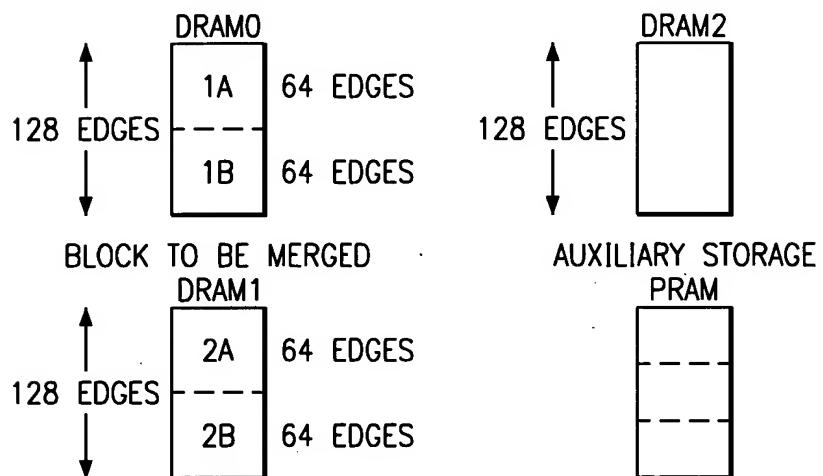


FIG. 22

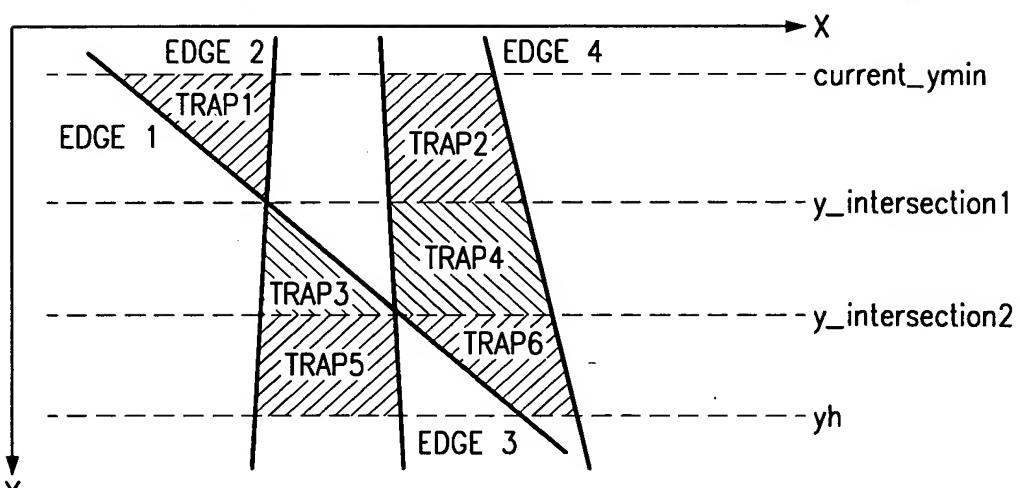


FIG. 23

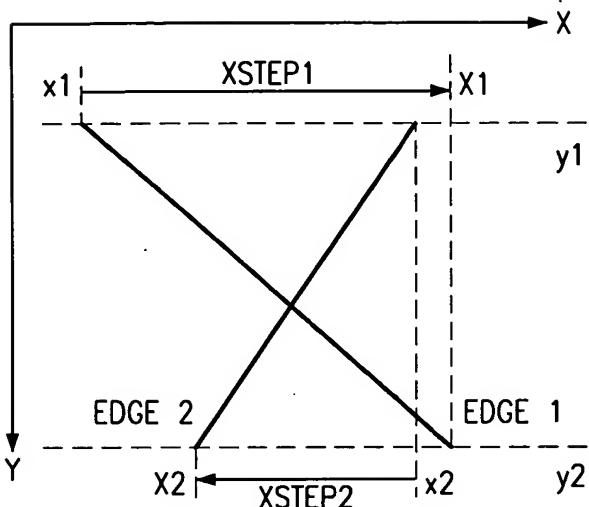


FIG. 24

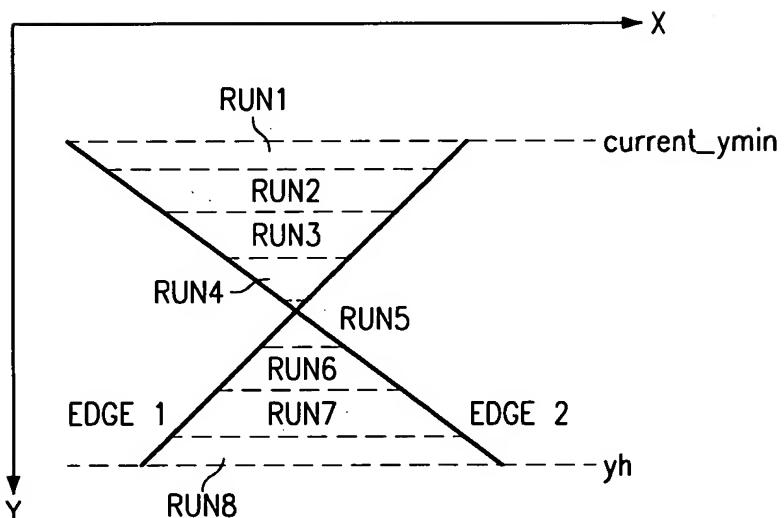
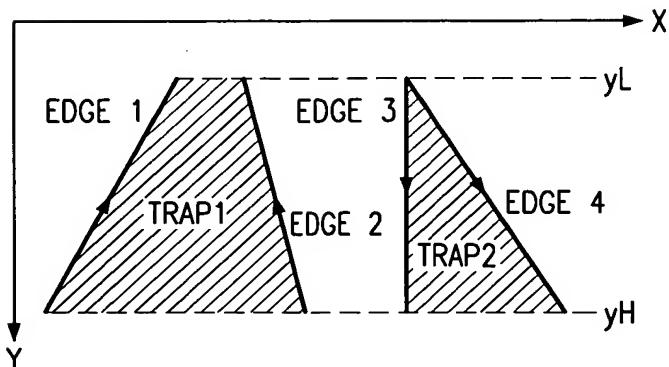


FIG. 25



AET(EDGE TABLE)	EDGE 1	EDGE 2	EDGE 3	EDGE 4
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FIG. 26

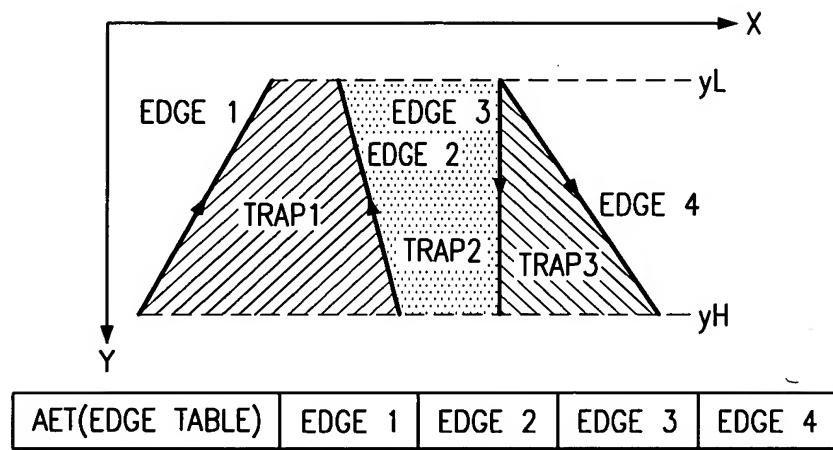


FIG. 27

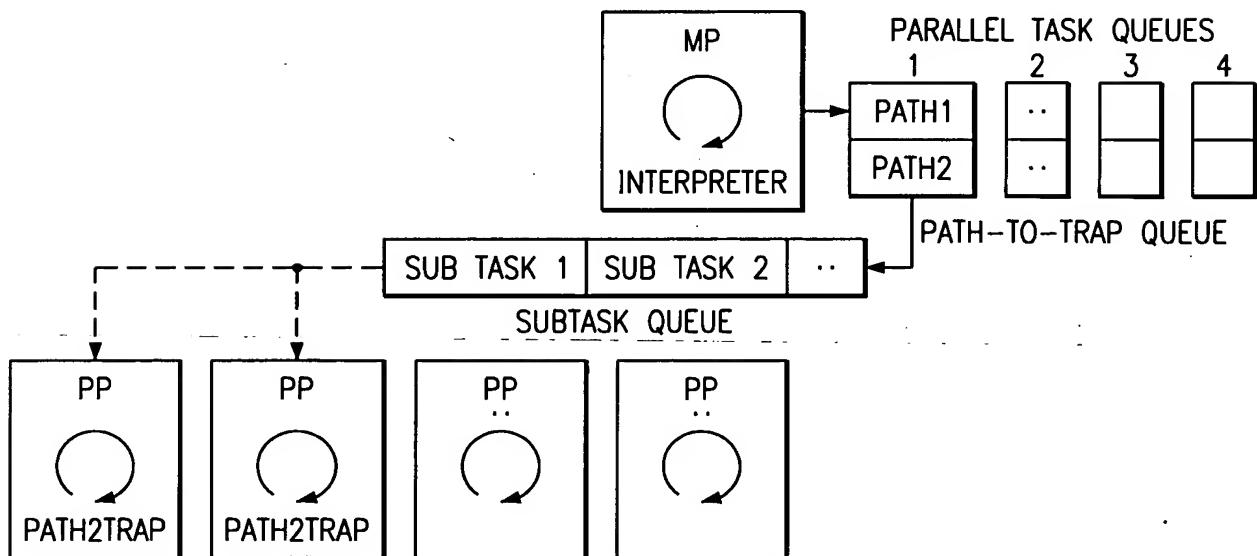


FIG. 28